**3GPP TSG-CT WG1 Meeting #141eC1-23xxxx**

**Online 17– 21 April 2023** ***was* C1-232129**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** | **-** | **Current version:** |  |  |
|  |
| *For* [***HELP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Correction to LADN restriction for UE to create PDU session |
|  |  |
| ***Source to WG:*** | Ericsson, Huawei, HiSilicon |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 2023-04-10 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | If UE receives both the LADN information IE and Extended LADN information, e.g., UE receives:(Legacy) LADN 1: DNN=M, TAI list=TAI1 (Extended) LADN 2: DNN=X, S-NSSAI=Y, TAI list=TAI2The UE is not allowed to create the PDU session when:1. UE requests PDU session establishment to DNN=M and the UE is not located in TAI1;
2. UE requests PDU session establishment to DNN=X and without S-NSSAI;
3. UE requests PDU session establishment to DNN=X, S-NSSAI not equals to Y;
4. UE requests PDU session establishment to DNN=X, S-NSSAI=Y, and the UE is not located in TAI2.

The current text in subclause 6.4.1.1 uses too few bullets to cover too many different cases, which makes it hard to understand. And case 2) is not covered. |
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| ***Summary of change:*** | Add the case not covered by for LADN restriction for UE to create PDU session, and reword the other cases in subclause 6.4.1.1. |
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| ***Consequences if not approved:*** | The LADN restriction for UE to create PDU session does not cover all restriction cases. |
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| ***Clauses affected:*** | 6.4.1.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR … CR …  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\* \* \* First Change \* \* \* \*

#### 6.4.1.1 General

The purpose of the UE-requested PDU session establishment procedure is to establish a new PDU session with a DN, to perform handover of an existing PDU session between 3GPP access and non-3GPP access, to transfer an existing PDN connection in the EPS to the 5GS, to transfer an existing PDN connection in an untrusted non-3GPP access connected to the EPC to the 5GS, or to establish an MA PDU session to support ATSSS (see 3GPP TS 24.193 [13B]), or to relay the service associated with the RSC for 5G ProSe layer-3 UE-to-network relay (see 3GPP TS 24.554 [19E]). If accepted by the network, the PDU session enables exchange of PDUs between the UE and the DN.

The UE shall not request a PDU session establishment:

a) for an LADN, if the DNN used for that LADN is included in the LADN information IE and the UE is located outside the LADN service area indicated in the LADN information IE;

a1) for an LADN, if the DNN used for that LADN is included in the Extended LADN information IE and there is no S-NSSAI used for PDU session establishment;

a2) for an LADN, if the DNN used for that LADN is included in the Extended LADN information IE and the S-NSSAI used for PDU session establishment is not associated with that LADN;

a3) for an LADN, if the DNN and the S-NSSAI used for that LADN are included in the Extended LADN information IE and the UE is located outside the LADN service area indicated in the Extended LADN information IE;

b) to transfer a PDU session from non-3GPP access to 3GPP access when the 3GPP PS data off UE status is "activated" and the UE is not using the PDU session to send uplink IP packets for any of the 3GPP PS data off exempt services (see subclause 6.2.10);

c) when the UE is in NB-N1 mode, the UE has indicated preference for user plane CIoT 5GS optimization, the network has accepted the use of user plane CIoT 5GS optimization for the UE, and the number of PDU sessions that currently has user-plane resources established equals to the UE's maximum number of supported user-plane resources;

d) to transfer a PDU session from 3GPP access to non-3GPP access when the UE has indicated preference for control plane CIoT 5GS optimization, the network has accepted the use of control plane CIoT 5GS optimization for the UE, and the Control plane only indication IE was received in the PDU SESSION ESTABLISHMENT ACCEPT message; or

e) to transfer a PDU session from the non-3GPP access to the 3GPP access when the UE is in NB-N1 mode, the UE has indicated preference for user plane CIoT 5GS optimization, the network has accepted the use of user plane CIoT 5GS optimization for the UE, and the number of PDU sessions that currently has user-plane resources established equals to the UE's maximum number of supported user-plane resources.

\* \* \* End of Changes \* \* \* \*